

Title (en)

High-voltage discharge lamp lighting device and lighting equipment

Title (de)

Beleuchtungsanordnung für eine Hochspannungsentladelampe und Beleuchtungsgerät

Title (fr)

Dispositif d'éclairage par lampe à décharge haute tension et équipement d'éclairage

Publication

EP 2106199 A2 20090930 (EN)

Application

EP 09156081 A 20090324

Priority

JP 2008079043 A 20080325

Abstract (en)

[Object] To provide a lighting device capable of detecting and correcting lowering of a starting high voltage due to extension of a wiring part 82 up to a high-voltage discharge lamp 8 easily, inexpensively and accurately. [Means for Settlement] A starting pulse generation circuit 7 includes a transformer primary winding circuit formed of serial connection of a capacitor C1, a primary winding N1 of a transistor T1 and a switching element Q7, a transformer secondary winding circuit for raising the voltage generated in the primary winding N1 of the transformer T1 and applying a high-voltage pulse to a high-voltage discharge lamp 8 and a transformer winding N3 for detecting the voltage level of the high-voltage pulse generated in the transformer T1. A pulse width detection circuit 16 for detecting a pulse width correlated with a peak value of the starting pulse voltage generated by the starting pulse generation circuit 7 is connected to the transformer winding N3, and the starting pulse voltage is adjusted to a desired value by indirectly detecting the peak value of the starting pulse voltage via the pulse width detection circuit 16 and controlling the starting pulse generation circuit 7 by use of a control circuit 9.

IPC 8 full level

H05B 41/04 (2006.01); **H05B 41/282** (2006.01)

CPC (source: EP US)

H05B 41/042 (2013.01 - EP US); **H05B 41/2881** (2013.01 - EP US); **Y02B 20/00** (2013.01 - EP US)

Citation (applicant)

JP 2007052977 A 20070301 - OSRAM MELCO LTD

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2106199 A2 20090930; **EP 2106199 A3 20110112**; **EP 2106199 B1 20130619**; JP 2009238382 A 20091015; US 2010013398 A1 20100121; US 8044601 B2 20111025

DOCDB simple family (application)

EP 09156081 A 20090324; JP 2008079043 A 20080325; US 41059509 A 20090325